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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,400	07/28/2003	Paul J. Timans	MAT-9	7216
21833	7590 12/15/2005		EXAM	INER
PRITZKAU PATENT GROUP, LLC			FUQUA, SHAWNTINA T	
993 GAPTER BOULDER, (ART UNIT	PAPER NUMBER
,			3742	

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		TWA
	Application No.	Applicant(s)
Office Action Summany	10/629,400	TIMANS ET AL.
Office Action Summary	Examiner	Art Unit
	Shawntina T. Fuqua	3742
The MAILING DATE of this communication ар Period for Reply	opears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the provided for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty d will apply and will expire SIX (6) MON te, cause the application to become AB	ply be timely filed r (30) days will be considered timely. IFHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>01 s</u> 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matte	• •
Disposition of Claims		
4) ⊠ Claim(s) <u>1-48,60-108 and 121-136</u> is/are pen 4a) Of the above claim(s) <u>18-30,36-40,46,47,7</u> 5) ⊠ Claim(s) <u>1-48,60-108,121,135 and 136</u> is/are 6) ⊠ Claim(s) <u>122-134</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	78-90,96-100,106 and 107 i allowed.	s/are withdrawn from consideration.
Application Papers		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 28 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	n)⊠ accepted or b)⊡ object e drawing(s) be held in abeyan ction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Aporty documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)	. □	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 122-134 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roozeboom et al (US6047107).

Roozeboom et al discloses a system/method for heating/cooling a treatment object via selective reflectivity comprising a heating arrangement (9) for heating object via radiated energy wherein heat source emission spectrum is different from emission spectrum of the object (column 4, lines 47-64), a chamber defining means (15, 17) for use in exposing object to radiated energy such that a first and second fraction of radiated energy are incident on a wall (3, 15, 17) and wall is configured for responding in a first way to first fraction and responding in a second way to a second fraction of radiated energy (column 4, lines 47-64), wall is configured to reflect and absorb (column 2, lines 16-31; column 3, lines 30-40), wall includes an inner layer that responds in a second way (15, 17; 2, 4, 6, 8, 10; Figures 1-2) with a thickness from 1 nm to 1.5 mm (column 2, lines 59-62), walls are metallic (column 5, line 42), inner layer includes a luminum oxide and titanium oxide (column 4, lines 4-7, 12-15), inner layer includes a polymer (column 3, lines 55-65) and a glass filler (column 3, lines 66-67) that modify the selective reflectivity (column 3, lines 49-54), wall includes a single layer (15, 17), at least two layers, or a

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thin film stack (2, 4, 6, 8, 10) directly attached to one another (Figure 2), and a wall arrangement covers at least 20% of total surface area (Figure 1).

Roozeboom et al discloses all of the recited subject matter except walls which reflect at least 60% and more than 75% of heat source radiated energy and absorbs at least 60% and more than 75% of object radiated energy, aluminum walls, and walls having a surface roughness. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have included walls which reflect at least 60% and more than 75% of heat source radiated energy and absorbs at least 60% and more than 75% of object radiated energy, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In addition, aluminum walls and walls with a surface roughness are conventional and well known in the art. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have included aluminum walls and a surface roughness on the walls as a means to heat/cool the walls more uniformly.

Allowable Subject Matter

3. Claim1-48, 60-108, 121, and 135-136 are allowed.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawntina T. Fuqua whose telephone number is (571) 272-4779. The examiner can normally be reached on Monday-Friday 8-4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (571) 272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

stf

December 12, 2005

Shawntina Fuqua Patent Examiner

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